

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,480	10/27/2003	Dwight A. Burford	038190/268379	8066
826	7590 07/26/2005		EXAM	INER
ALSTON & BIRD LLP			EDMONDSON,	LYNNE RENEE
BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000			ART UNIT	PAPER NUMBER
	E, NC 28280-4000		1725	

DATE MAILED: 07/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/706,480	BURFORD ET AL.			
Office Action Summary	Examiner	Art Unit			
	Lynne Edmondson	1725			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s)	Responsive to communication(s) filed on 20 September 2004.				
2a) This action is FINAL .	2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1,3-6,8-11,13-16 and 18-20</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,3-6,8-11,13-16 and 18-20</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to rest	riction and/or election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>27 October 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No.					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4//05 6) Other:					
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office Action Summary	Part of Paper No. 0721			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 1. Claims 1, 3, 5, 6, 8, 10, 11, 13, 15, 16, 18 and 20 are rejected under 35
- U.S.C. 102(b) as being anticipated by Campbell et al.(USPN 6199745 B1).

Campbell teaches a friction stir welding method and apparatus comprising a controller for controlling the rotation speed and insertion depth (plunge) of the tool such that the spindle motor operates within a predetermined range of torque (col 3 line 48 – col 4 line 14).

2. Claims 1, 3, 4, 6, 8, 9, 11, 14, 16, 18 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Thompson (USPN 6742696 B2).

Thompson teaches a friction stir welding method and apparatus comprising a controller for the joining speed and insertion depth (plunge) of the tool such that the

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spindle motor operates within a predetermined range of torque (col 8 line 61 – col 10 line 20 and col 11 lines 18-47).

3. Claims 1, 3-6, 8-11, 13-16 and 18-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Koga et al. (US 2005/0001010 A1).

Koga teaches a friction stir welding method and apparatus comprising a controller for the joining speed, rotational speed and insertion depth (plunge) of the tool such that the spindle motor operates within a predetermined range of torque (paragraphs 71-73).

4. Claims 1, 3, 6, 8, 11, 13, 16 and 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Yoshinaga (USPN 6708865).

Yoshinaga teaches a friction stir welding method and apparatus (col 1 lines 5-11) comprising a controller for controlling the insertion depth (plunge) of the tool such that the spindle motor operates within a predetermined range of torque and current (col 4 lines 15-65). A contact sensor is also employed to detect distance and depth (col 4 lines 57-65 and col 5 lines 38-62). Cutting and bonding tools are interchangeable (col 5 lines 17-35).

5. Claims 1, 3, 6, 8, 11, 13, 16 and 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Okamoto et al. (US 2004/0173663 A1).

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Okamoto teaches a friction stir welding method and apparatus comprising a controller for controlling the insertion depth (plunge) of the tool such that the spindle motor operates within a predetermined range of torque and current (paragraphs 12-20 and 36-42).

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Okamoto et al. (USPN 6729526 B2), Okamura et al. (USPN 6595403 B2) and Boon et al. (USPN 6325273 B1).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne Edmondson whose telephone number is (571) 272-1172. The examiner can normally be reached on Monday through Thursday from 6:30 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne Edmondson

Primary Examiner

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LRE